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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
00/434 024	11/04/1000	VATCHTOMO TEDACHIMA	VV002020	2207

7590

02/26/2003

VARNDELL AND VARNDELL PLLC 106-A South Columbus Street ALEXANDRIA, VA 22314

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EXAM	INER			

JACKSON, CORNELIUS H

ART UNIT PAPER NUMBER

2828

DATE MAILED: 02/26/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/434,024	TERASHIMA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cornelius H. Jackson	2828				
The MAILING DATE of this communication app Period for Reply	ars on the cover sheet with the	correspond nce address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	66(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) do rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	imely filed ays will be considered timely. In the mailing date of this communication. IED (35 U.S.C. § 133).				
1)⊠ Responsive to communication(s) filed on <u>02 £</u>	December 2003					
·	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>25-39</u> is/are pending in the applicatio						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.		0 00				
	6) Claim(s) 25-39 is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	coloction requirement	PAUL IP				
Application Papers	election requirement.	SUPERVISORY PATENT EXAMINED				
9) The specification is objected to by the Examiner		TECHNOLOGY CENTER 2800				
10) The drawing(s) filed on is/are: a) accep		aminer.				
Applicant may not request that any objection to the						
11)☐ The proposed drawing correction filed on	is: a) ☐ approved b) ☐ disapp	roved by the Examiner.				
If approved, corrected drawings are required in reply to this Office action.						
12)☐ The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents	2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲 Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-152)				
C. Detant and Trademark Office						

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DETAILED ACTION

Acknowledgment

1. Acknowledgment is made that applicant's Amendment, filed on 02 December 2002, has been entered. Upon entrance of Amendment, claims 9-24were cancelled and claims 25-39 were added. Claims 25-39 are pending in the present application.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 25-34 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claims 25-30 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are: There is no information recited within the claims connecting how a mechanism or chamber is positioned relative to one another in an excimer laser. Other omitted elements and structural cooperative relationships are the gas supply units, mirror(s), window(s), discharge electrodes, and the device(s) used to maintain the predetermined concentration of gas mixture.

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5. Claim 31 is indefinite for failing to particularly point out what is meant by "a narrow band input device for emitting pulsed light having a narrow band into the chamber". It is unclear as to whether the device or the light has a narrow band into the chamber. Claims 32-34 are rejected since they depend on an indefinite base claim.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

7. Claims 25-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Hofmann et al. (6014398).

Regarding claim 31, Hofmann et al. disclose an excimer laser device including a laser gas sealed in a chamber; the laser gas comprising a gas mixture composed of a rare gas selected from the group consisting of Kr and Ar, a buffer gas of Ne, and a halogen gas; a narrow band input device **18** for emitting pulsed light having a narrow

band into the chamber, electrodes 6 are arranged within the chamber for exciting the laser gas, see col. 1, lines 10-55 and claims 1 and 2, a mirror 36 arranged on an output side of the chamber for outputting pulsed laser light, and means, see col. 6 lines 35-67 for lowering burst and spiking phenomena and increasing energy of the pulsed laser output including control means 22 for adding xenon gas to the laser gas and controlling a concentration of xenon gas, see col. 7, line 5-col. 9, line 40 in the laser gas to an amount that effectively reduces the bursting and spiking phenomena in the laser,

Regarding claims 25, Hofmann et al. disclose wherein a predetermined amount of xenon gas, see col. 7, line 5-col. 9, line 40 having a predetermined concentration is added to the laser gas for excimer laser in the chamber to lower burst and spiking phenomena, see col. 6 lines 35-67 caused in the pulsed laser output, see Figs 8A-B and col. 2, lines 25-42

Regarding claims 26, 28 and 29, Hofmann et al. disclose sensing means 20 and control means 22.

Regarding claim 32 and 33, Hofmann et al. disclose all stated limitations, see all the rejections above.

Regarding claims 27, 30 and 34, Hofmann et al. disclose a gas used in an excimer laser containing 200ppm or below of the gas xenon, see col. 2, lines 25-42.

Regarding claims 35-39, it is inherent that the device disclosed by Hofmann et al. uses the method as claimed, therefore the method is rejected on the same basis as the device.

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Response to Arguments

8. Applicant's arguments with respect to claims 9-24 have been considered but are most in view of the cancellation of all those claims.

Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cornelius H. Jackson whose telephone number is (703) 306-5981. The examiner can normally be reached on 8:00 - 5:00, Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the

organization where this application or proceeding is assigned are (703)308-7722 for regular communications and (703)308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

February 21, 2003

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